IN THE SPECIFICATION

Please replace the title of the disclosure with the following new title:

-- LITHIUM SECONDARY BATTERY CONTAINING ORGANIC PEROXIDE IN NON-AQUEOUS ELECTROLYTE, POSITIVE ELECTRODE, OR NEGATIVE ELECTRODE

Please amend paragraph [0030] of the disclosure as follows:

Among them, phases comprising silicon and at least one transition metal selected from the group consisting of Ti, Ni, Co, Fe and Cu, alloy phases comprising silicon and the abovementioned at least one transition metal, and intermetallic compound phases comprising silicon and the above-mentioned at least one transition metal are preferred. Exemplary phases comprising silicon and at least one transition metal selected from Ti, Ni, Co, Fe, Cu, Zr, and the like include: solid solution phases comprising silicon and at least one transition metal element selected from the group consisting of Ti, Ni, Co, Fe and Cu; and alloy phases comprising silicon and at least one intermetallic compound selected from the group consisting of TiSi₂, TiSi, CoSi₂, CoSi, FeSi₂, FeSi, NiSi₂, NiSi, and Cu₃Si.

In this case, it is further preferred that the above-mentioned at least one transition metal include Ti. Also, among these phases, phases comprising TiSi₂ are particularly preferred. This is because TiSi₂ has a high electronic conductivity.

It should be noted that a mixture of the above-mentioned material, such as alloy, with carbon material, such as graphite, may be used as the negative electrode active material unless the feature of high capacity is [[not]] impaired.

Please insert the following Table 1 at paragraph [0076]. This Table 1 is fully disclosed in PCT/JP2005/004443, of which the present application is a national phase.

[Table 1]

Pattery Al Discousing active Discretive Discretiv						
tery Al LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy Cumene peroxide 2635 tery A2 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2642 tery A3 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy Diethyl peroxide 2629 tery A4 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy peroxyneodecanate 2629 tery A5 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy Peroxyneodecanate 2629 tery A6 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy Peroxyneodecanate 2629 tery A6 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy Acetyl acetone peroxide 2636 tery A8 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy Acetyl acetone peroxide 2640 tery A8 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film m-chloroperbenzoic acid 2725 tery A10 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 tery A11 LiNio. ₀₅ Co _{0.15} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 tery A12 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film m-chloroperbenzoic acid 2870 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2284 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2280 terphite that the m-chloroperbenzoic acid 2250 terphite m-c		ive act ial	Negative electrode active material	Organic peroxide	Battery capacity (mAh)	Capacity retention rate (%)
tery A2 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2642 tery A4 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy peroxyneodecanate 2629 tery A4 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy peroxyneodecanate 2629 tery A5 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy benzoyl peroxide 2629 tery A6 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy hortylperoxy 2590 cyclobeane peroxide 2636 tery A8 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy hortyl acetone peroxide 2640 tery A8 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy hortyl acetone peroxide 2655 tery A10 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film m-chloroperbenzoic acid 2655 tery A10 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film m-chloroperbenzoic acid 2655 tery A11 LiNi _{0.95} Co _{0.15} Al _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2655 tery A12 LiNi _{0.95} Co _{0.15} Al _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2655 tery A13 LiNi _{0.95} Co _{0.15} Al _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2636 tery A13 LiNi _{0.95} Co _{0.15} Al _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2636 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2586 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film m-chloroperbenzoic acid 2586 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2586 tery A13 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2284 tery A14 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2284 tery Battery 4 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2284 tery battery 5 LiMn _{0.04} Graphite m-chloroperbenzoic acid 1923		LiCo _{0.98} Mg _{0.02} O ₂	i-Si	1	2635	
tery A3	1	LiCO _{0.98} Mg _{0.02} O ₂	-Si	1	2642	85
tery A4 LiCoo,98Mgo,0202 Ti-Si alloy peroxyneodecanate cery A5 LiCoo,98Mgo,0202 Ti-Si alloy Benzoyl peroxide 2623 tery A6 LiCoo,98Mgo,0202 Ti-Si alloy Cyclohexane 2536 cery A10 LiCoo,98Mgo,0202 Ti-Si alloy Acetyl acetone peroxide 2640 cery A8 LiCoo,98Mgo,0202 Si thin film m-chloroperbenzoic acid 2725 cery A10 LiCoo,98Mgo,0202 Ti-Si alloy m-chloroperbenzoic acid 2636 cery A11 LiCoo,98Mgo,0202 Ti-Si alloy m-chloroperbenzoic acid 2636 cery A12 LiNio,83Coo,1502 Ti-Si alloy m-chloroperbenzoic acid 2635 cery A13 LiNio,83Coo,1502 Ti-Si alloy m-chloroperbenzoic acid 2585 cery A13 LiCoo,98Mgo,0202 Ti-Si alloy m-chloroperbenzoic acid 2280 cery A13 LiCoo,98Mgo,0202 Graphite m-chloroperbenzoic acid 2280 cery A14 LiCoo,98Mgo,0202 Graphite m-chloroperbenzoic acid 2280 cery A15 LiCoo,98Mgo,0202 Graphite m-chloroperbenzoic acid 2280 cery A16 LiCoo,98Mgo,0202 Graphite m-chloroperbenzoic acid 1923		LiCo _{0.98} Mg _{0.02} O ₂	-Si		2611	97
tery A5 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy Benzoyl peroxide 2623 tery A6 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy 1,1-di-t-butylperoxy 2590 tery A7 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy Acetyl acetone peroxide 2640 tery A8 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film m-chloroperbenzoic acid 2640 tery A8 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2655 ery A10 LiNi _{0.85} Co _{0.15} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 ery A11 LiNi _{0.85} Co _{0.15} Al _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 ery A12 LiNi _{0.85} Co _{0.15} Al _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 ery A13 LiNi _{0.95} Co _{0.15} Al _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2585 battery 1 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2284 battery 3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2284 battery 4 LiCo _{0.98} Mg _{0.02} O ₂ Grap	l	LiCO _{0.98} Mg _{0.02} O ₂	-Si al	α — cumyl peroxyneodecanate	2629	74
tery A6 LiCo _{0.99} Mg _{0.02} O ₂ Ti-Si alloy 1,1-di-t-butylperoxy 2590 cyclohexane LiCo _{0.99} Mg _{0.02} O ₂ Ti-Si alloy Acetyl acetone peroxide 2636 tery A3 LiCo _{0.99} Mg _{0.02} O ₂ Si thin film n-chloroperbenzoic acid 2725 cery A10 LiCo _{0.99} Mg _{0.02} O ₂ Ti-Si alloy n-chloroperbenzoic acid 2655 cery A11 LiNi _{0.85} Co _{0.15} O ₂ Ti-Si alloy n-chloroperbenzoic acid 2870 cery A12 LiNi _{0.85} Co _{0.15} O ₂ Ti-Si alloy n-chloroperbenzoic acid 2870 cery A13 LiNi _{0.75} Co _{0.15} Mn _{1/3} O _{2 Ti-Si alloy n-chloroperbenzoic acid 2885 cery A13 LiCo_{0.98}Mg_{0.02}O₂ Ti-Si alloy n-chloroperbenzoic acid 2585 cery A13 LiCo_{0.98}Mg_{0.02}O₂ Ti-Si alloy n-chloroperbenzoic acid 2585 cery A13 LiCo_{0.98}Mg_{0.02}O₂ Si thin film n-chloroperbenzoic acid 2280 cery A14 LiCo_{0.98}Mg_{0.02}O₂ Graphite n-chloroperbenzoic acid 2284 cery A15 LiCo_{0.98}Mg_{0.02}O₂ Graphite n-chloroperbenzoic acid 2284 cery battery 4 LiCo_{0.98}Mg_{0.02}O₂ Graphite n-chloroperbenzoic acid 2250 cery battery 5 LiMn₂O₄ Graphite n-chloroperbenzoic acid 1923}	ttery	LiCo _{0.98} Mg _{0.02} O ₂	-Si al	Benzoyl peroxide	2623	77
tery A7		LiCO _{0.98} Mg _{0.02} O ₂	i-Si al	1,1-di-t-butylperoxy cyclohexane	2590	29
tery A8 . LiCoo,98Mg0.0202 Si thin film Cumene peroxide 2640 tery A9		LiCo _{0.98} Mg _{0.02} O ₂	i-Si	acetone	2636	72
tery A9 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film m-chloroperbenzoic acid 2725 ery Al0 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 ery Al1 LiNi _{0.85} Co _{0.15} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 ery Al2 LiNi _{0.85} Co _{0.15} Al _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2802 ery Al3 LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2585 ery Al3 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2585 ery Al3 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2586 ery Al3 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film None 2635 ery Al3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2280 ery Al3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2250 ery Al3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 1923 ery Al3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 1923		LiCO _{0.98} Mg _{0.02} O ₂	thin		2640	78
ery Al0 LiCoO ₂ Ti-Si alloy m-chloroperbenzoic acid 2655 ery Al1 LiNi _{0.85} Co _{0.15} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 ery Al2 LiNi _{1.73} Co _{0.15} Al _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2585 ery Al3 LiNi _{1.73} Co _{1.73} Mn _{1.73} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2585 . battery 1 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy None 2635 . battery 2 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film m-chloroperbenzoic acid 2280 . battery 3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2284 . battery 5 LiMn ₂ O ₄ Ti-Si alloy m-chloroperbenzoic acid 2250 . battery 6 LiMn ₂ O ₄ Ti-Si alloy m-chloroperbenzoic acid 1923		LiCO _{0.98} Mg _{0.02} O ₂	thin		2725	82
ery All LiNi _{0.85} Co _{0.15} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2870 ery Al2 LiNi _{0.83} Co _{0.15} Al _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2802 ery Al3 LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2585 . battery 1 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy None 2750 . battery 2 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2284 . battery 3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2284 . battery 4 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2250 . battery 5 LiMn ₂ O ₄ Ti-Si alloy m-chloroperbenzoic acid 1923		LiCoO ₂	-81	1	2655	83
ery A12 LiNio.83Coo.15Alo.02O2 Ti-Si alloy m-chloroperbenzoic acid 2802 ery A13 LiNi _{1/3} Co _{1/3} Mn _{1/3} O2 Ti-Si alloy m-chloroperbenzoic acid 2585 . battery 1 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2635 . battery 2 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2280 . battery 4 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2284 . battery 5 LiMn ₂ O ₄ Ti-Si alloy m-chloroperbenzoic acid 2250 . battery 6 LiMn ₂ O ₄ Graphite m-chloroperbenzoic acid 1923		LiNi _{0.85} Co _{0.15} O ₂		1	2870	80
ery A13 LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Ti-Si alloy m-chloroperbenzoic acid 2585 . battery 1 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy None 2635 . battery 2 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film None 2750 . battery 3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2284 . battery 4 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2250 . battery 5 LiMn ₂ O ₄ Ti-Si alloy m-chloroperbenzoic acid 1923 . battery 6 LiMn ₂ O ₄ Graphite m-chloroperbenzoic acid 1923		LiNi _{0.83} Co _{0.15} Al _{0.02} O ₂	Si.	1	2802	83
. battery 1 LiCo _{0.98} Mg _{0.02} O ₂ Ti-Si alloy None 2635 . battery 2 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film None 2750 . battery 3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2280 . battery 4 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2250 . battery 5 LiMn ₂ O ₄ Ti-Si alloy m-chloroperbenzoic acid 1923 . battery 6 LiMn ₂ O ₄ Graphite m-chloroperbenzoic acid 1923	attery A13		i		2585	85
. battery 2 LiCo _{0.98} Mg _{0.02} O ₂ Si thin film None 2750 . battery 3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2280 . battery 4 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2250 . battery 5 LiMn ₂ O ₄ Ti-Si alloy m-chloroperbenzoic acid 1923 . battery 6 LiMn ₂ O ₄ Graphite m-chloroperbenzoic acid 1923	. battery	LiCO _{0.98} Mg _{0.02} O ₂	-81	None	2635	57
. battery 3 LiCo _{0.98} Mg _{0.02} O ₂ Graphite m-chloroperbenzoic acid 2280 . battery 4 LiCo _{0.98} Mg _{0.02} O ₂ Graphite None 2284 . battery 5 LiMn ₂ O ₄ Ti-Si alloy m-chloroperbenzoic acid 2250 . battery 6 LiMn ₂ O ₄ Graphite m-chloroperbenzoic acid 1923	. battery	LiCO _{0.98} Mg _{0.02} O ₂	thin	None	2750	55
. battery 4 LiCo _{0.98} Mg _{0.02} O ₂ Graphite None 2284 . battery 5 LiMn ₂ O ₄ Ti-Si alloy m-chloroperbenzoic acid 2250 . battery 6 LiMn ₂ O ₄ Graphite m-chloroperbenzoic acid 1923	battery	LiCO _{0.98} Mg _{0.02} O ₂	Graphite	Į.	2280	82
. battery 5 LiMn ₂ O ₄ Ti-Si alloy m-chloroperbenzoic acid 2250 . battery 6 LiMn ₂ O ₄ Graphite m-chloroperbenzoic acid 1923	. battery	LiCO _{0.98} Mg _{0.02} O ₂	Graphite	None	2	80
. battery 6 LiMn ₂ O ₄ Graphite m-chloroperbenzoic acid 1923	battery	LiMn ₂ O ₄	1	1	2250	73
	. battery	LiMn ₂ O ₄	Graphite	l	1923	79